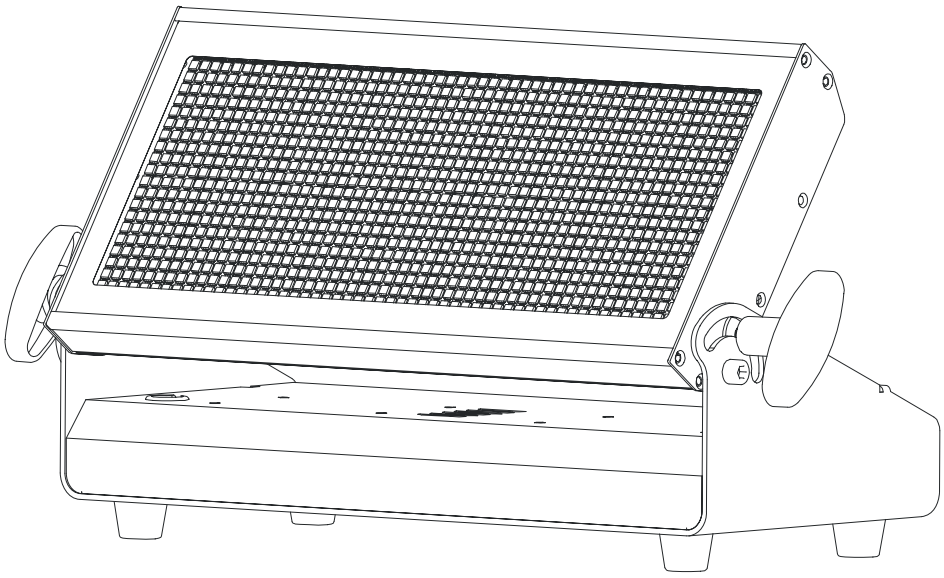
STAGE PANEL 1080



LP-1080

User Manual

Please read the manual carefully before use

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1. Safety Instruction

WARNING

Please read carefully this instruction, which includes important information about the installation, usage and maintenance.

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO NOT open the unit within five minutes after switching off.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

If using a 230V 50Hz power supply, DO NOT connect in series more than 3 units; use another main supply for the next 3 fixtures.
If using a 120V 60Hz power supply, DO NOT connect in series more than 2 units; use another main supply for the next 2 fixtures.

Caution:

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

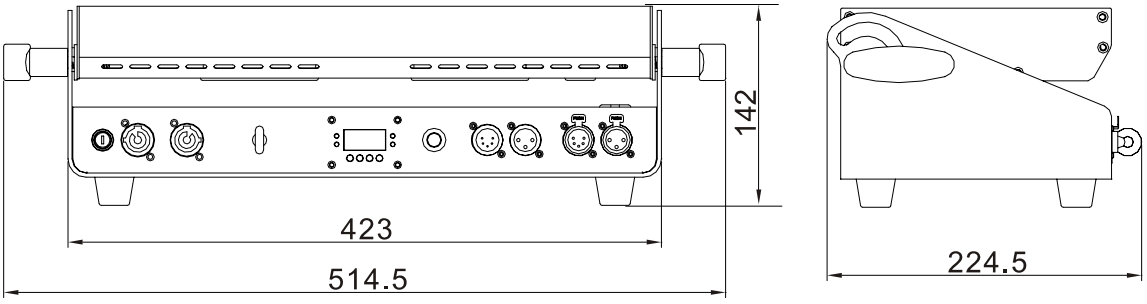
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by the professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

2. Technical Specification

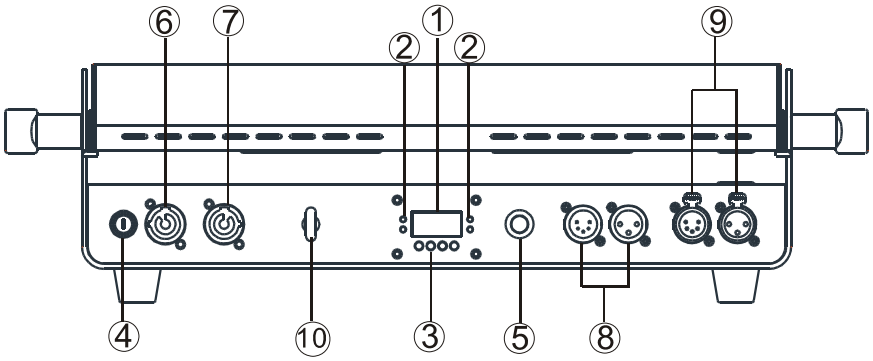
- DMX Control: 1/3/4/4/4/4/6 Channels Mode
- Smooth 0~100% dimming and variable strobe speeds
- Three Operation Modes: DMX, Master/Slave, Sound Active
- The DMX Address code can be set by the DMX tester CA-T
- Variable strobe effects
- Beam Angle: 135°

- **Voltage：** AC 100-240V, 50/60Hz
- **Power Consumption：** 247W
- **LED:** 1080pcs SMD RGB(Tri-color) LEDs
- **Fuse:** T 6.3A
- **Dimension：** 515 x 225 x 142mm
- **Weight：** 8.9Kgs



3. How To Set The Unit

3.1 Control panel



① **Display:** To show the various menus and the selected functions

② **Indicator LED:**

DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode
SOUND	Flashing	Sound activation

③ **Button:**

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

④ **Fuse(T 6.3A):** Protect the fixture from the damage of over-current.

⑤ **Microphone:** To receive music for the sound active.

⑥ **Mains output:** Connect to supply mains power for the next fixture.

⑦ **Mains input:** Connect to supply mains power

⑧ **DMX input:** For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal

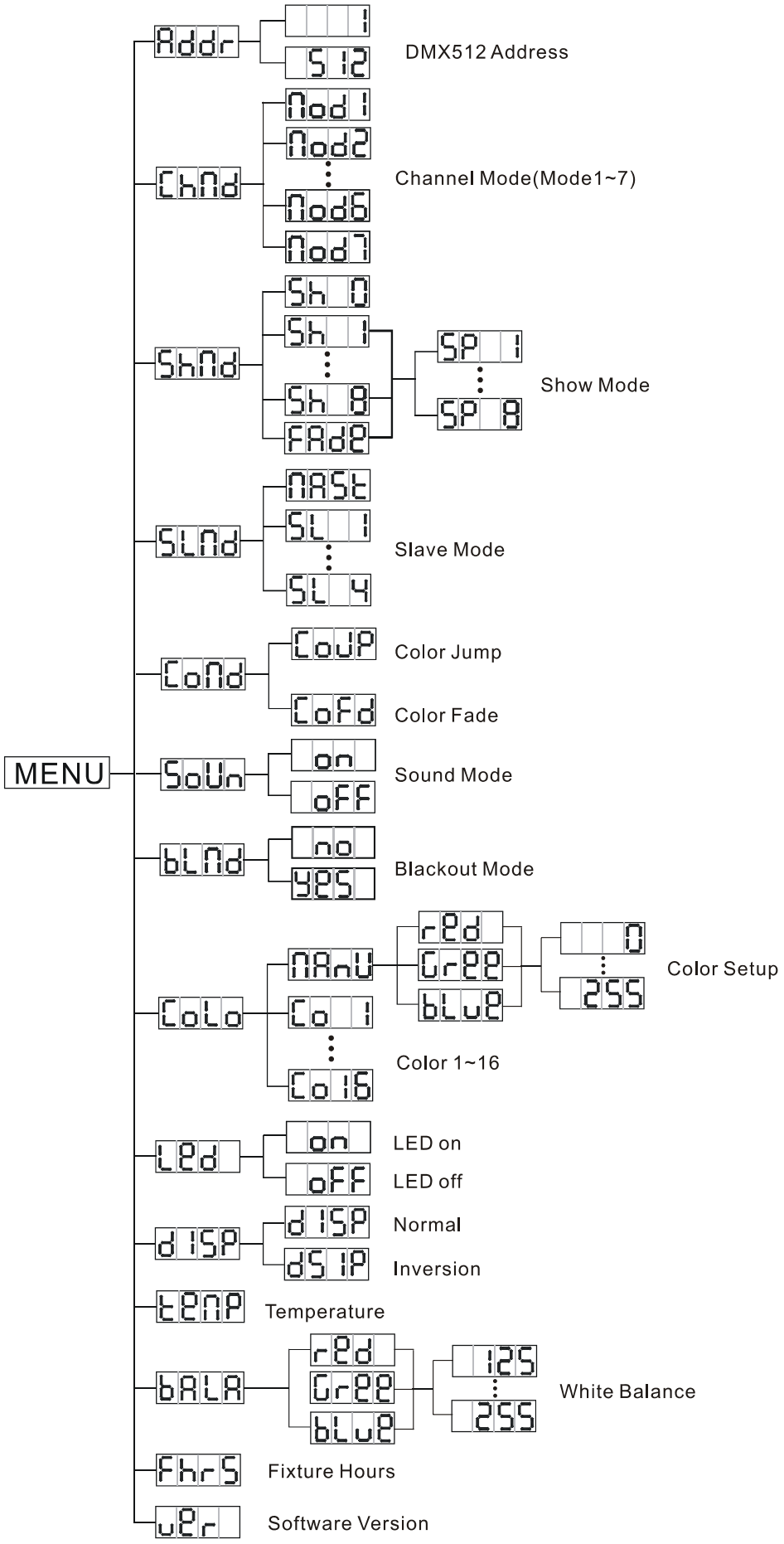
⑨ **DMX output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next fixture.

⑩ **Safety Ring:** Keep the installation safe.

3.2 Main Function

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

The main functions are showing below:


MENU
Addr
001
512
DMX512 Address
ChNd
Mod1
Mod2
Mod6
Mod7
Channel Mode(Mode1~7)
ShNd
Sh 0
Sh 1
Sh 8
FAdE
SP 1
SP 8
Show Mode
SLNd
MASt
SL 1
SL 4
Slave Mode
CoNd
CoJP
Color Jump
CoFd
Color Fade
SoUn
on
oFF
Sound Mode
bLNd
no
YES
Blackout Mode
CoLo
MAnU
Co 1
Co16
rEd
GrEE
bLuE
000
255
Color Setup
Color 1~16
LEd
on
oFF
LED on
LED off
diSP
diSP
diSP
Normal
Inversion
tEMP
Temperature
bALA
rEd
GrEE
bLuE
125
255
White Balance
FHrS
Fixture Hours
uEr
Software Version

Addr DMX 512 Address Setting

Press the **MENU** button up until Addr is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to change the DMX 512 Address. Once the address has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

ChNd Channel Mode

Press the **MENU** button up until ChNd is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select Mod1 (mode 1) or Mod2 (mode 2)…Mod7 (mode 7), Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

ShNd Show Mode

Press the **MENU** button up until ShNd is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select Sh 0 (show 0), Sh 1 (show 1)…Sh 8 (show 8) or FAdE (Fade). Press either Sh 1...or Sh 8, FAdE, you can adjust the speed from SP 1(the slowest) to SP 8 (the fastest). Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

SLNd Slave Mode

Press the **MENU** button up until SLNd is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select MASt (master), SL 1 (slave 1) …or SL 4 (slave 4). Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

CoNd Color Mode

Press the **MENU** button up until CoNd is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select CoJP (Color Jump) or CoFd (Color Fade). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

SoUn Sound Mode

Press the **MENU** button up until SoUn is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select on or oFF. Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

bLNd Blackout Mode

Press the **MENU** button up until bLNd is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select YES (black out) or no (normal). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

CoLo Color Setup

Press the **MENU** button up until CoLo is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select MANU, Co 1(color 1)…Co16 (color 16), when you have selected the MANU button and press the **ENTER** button, you can use the **DOWN** and the **UP** button select the rEd (red), GrEE(green), bLuE(blue) and you can adjust the intensity from 0 to 255. Back to the previous functions without any change press the **MENU** button.

LED Display

Press the **MENU** button up until LEd is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select on (LED on) or oFF (LED off). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

Display Inverse

Press the **MENU** button up until diSP is shown on the display. Use the **ENTER** button to select diSP (normal) or dSIP (inverse). Back to the previous functions without any change press the MENU button.

Temperature

Press the **MENU** button up until tEMP is shown on the display. Pressing the **ENTER** button and the unit will show the temperature. Back to the previous functions without any change press the MENU button.

White Balance

Press the **MENU** button up until bALA is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select rEd, GrEE or bLuE. Once selected, press the **ENTER** button to adjust the value (125~255), or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

Fixture Hours

Press the **MENU** button up until FHrS is shown on the display. Pressing the **ENTER** button and the display will show the number of working hours of the unit. Back to the previous functions without any change press the **MENU** button.

Software Version

Press the **MENU** button up until is shown on the display. Pressing the **ENTER** button and the display will show the version of software of the unit. Back to the previous functions without any change press the **MENU** button.

4. How To Control The Unit

You can operate the unit in two ways:

1. By master/slave function
2. By DMX controller

No need to turn the fixture off when you change the DMX address, as new DMX address setting will be affected at once. Each time when you turn the fixture on, it will show " " on the display. After that the fixture will be ready to receive DMX signal or run the built in programs.

4.1 Master/Slave Function

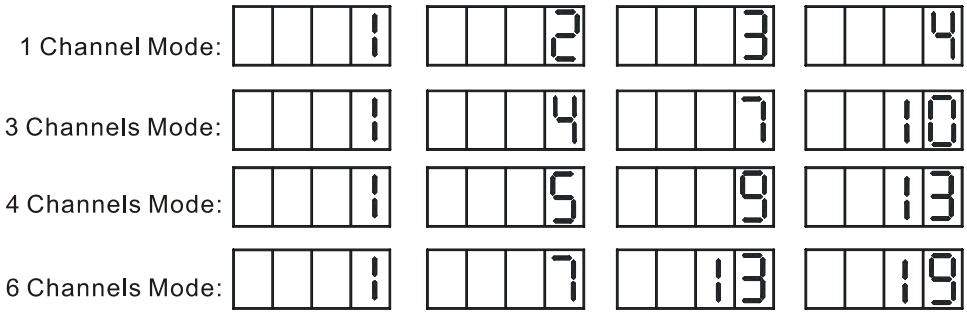
By linking the fixtures in master/slave connection, the first fixture will be master automatically. You should set the master fixture effect via its knobs, then the other fixtures (slave) will lighting as the same.

4.2 DMX Controller

An universal DMX controller to control the fixtures, you have to set DMX address from 1 to 512 channel so that the fixtures can receive DMX signal.

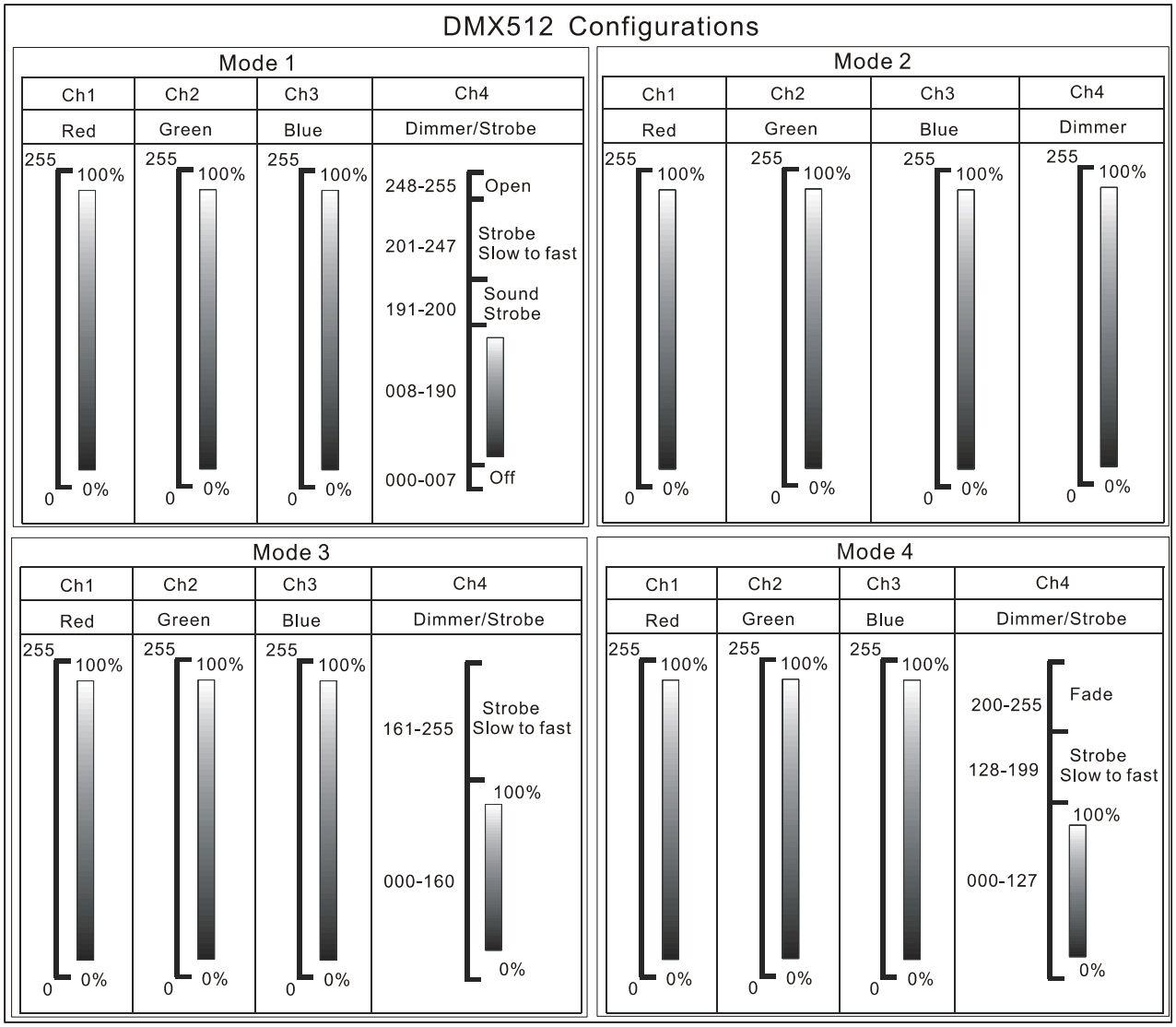
Press the **MENU** button up to when the is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 30 seconds later. To go back to the functions without any change press the **MENU** button again.

If you use please refer to the following diagram to address your DMX512 channel for the first 4 fixtures.



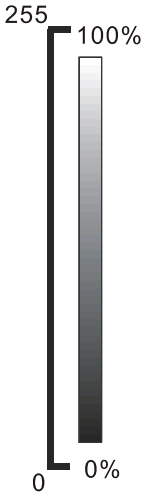
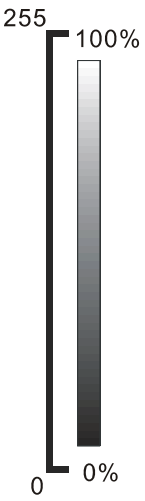
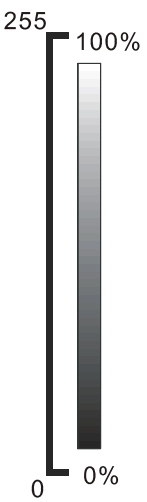
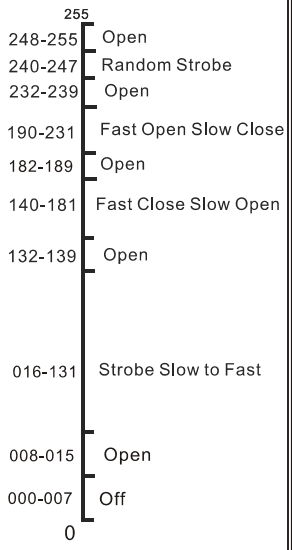
5. DMX512 Configuration

Mode1/2/3/4:

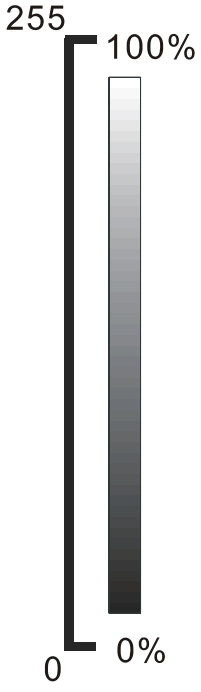
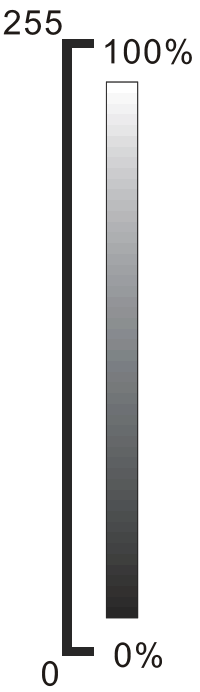
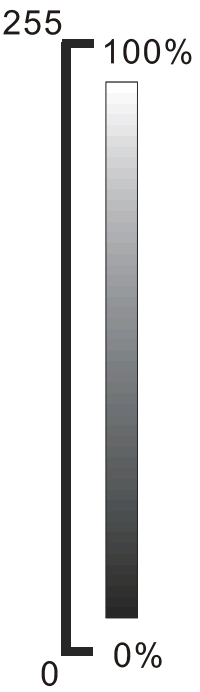


Mode 5/6/7:

Mode 5

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
Red	Green	Blue	Dimmer	Color	Strobe
				248-255 Color32 240-247 Color31 232-239 Color30 224-231 Color29 217-223 Color28 209-216 Color27 201-208 Color26 194-200 Color25 186-193 Color24 178-185 Color23 170-177 Color22 163-169 Color21 155-162 Color20 147-154 Color19 140-146 Color18 132-139 Color17 124-131 Color16 116-123 Color15 109-115 Color14 101-108 Color13 093-100 Color12 085-092 Color11 078-084 Color10 070-077 Color9 062-069 Color8 055-061Color7 047-054 Color6 039-046 Color5 031-038 Color4 024-030 Color3 016-023 Color2 008-015 Color1 000-007 Open	

Mode 6

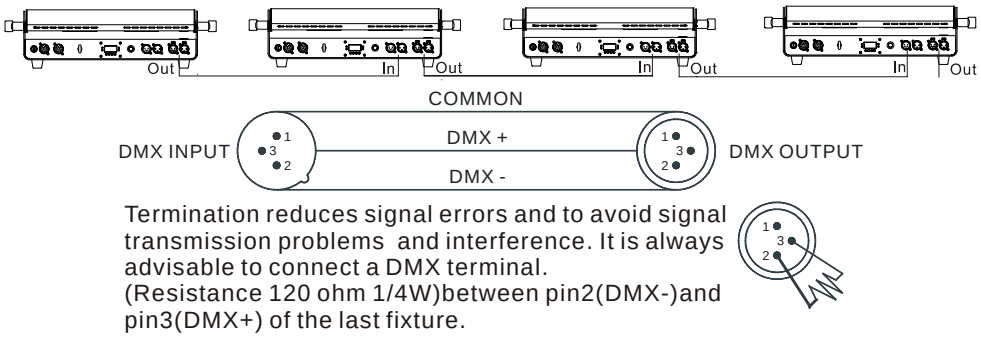
Ch1	Ch2	Ch3
Red	Green	Blue
		

Mode 7

Ch1
Color
192-255 Fade preset colors from slow to fast
128-191 Marco preset colors from slow to fast
127 Marco
111-126 White (Red + Green + Blue)
095-110 Magenta (Red + Blue)
079-094 Blue
063-078 Cyan(Green+Blue)
047-062 Green
031-046 Yellow(Red+Green)
015-030 Red
000-014 Blackout

6. DMX512 Connection

The DMX512 is widely used in intelligent lighting control, with a maximum of 512 channels.



1. Connect the fixture together in a “daisy chain” by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a “Y” cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system
2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the fixtures’ power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.
4. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. 3 pin XLR connectors are more popular than 5 pins XLR.

   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+),

   Pin4/5: not used

7. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. No response to the sound

1. Make sure the fixture does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone.

D. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor’s drive IC on the PCB might be out of condition.

8. Fixture Cleaning

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture’s optics.

- Clean with soft cloth using normal glass cleaning liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance